

ABSTRACT OF THE INVENTION

A GPS receiver for integrating a GPS signal separately in a series of "A" type and "B" type time segments, the "A" segments alternating with the "B" time segments; combining 5 the squares of the magnitudes of "A" time segment integrations corresponding to code phases for forming "A" type combined magnitudes; combining the squares of the magnitudes of the "B" time segment integrations corresponding to code phases for forming "B" type combined magnitudes; and determining an acquisition code phase of the 10 signal from the strongest of the "A" or "B" combined magnitudes. The "A" time segments and the "B" time segments are one-half the period of the data bits of the signal, thereby ensuring that either the "A" time segments or the 15 "B" time segments avoid the nullifying effect of data bit inversions.